

DRAFT AGENDA: MISR Science Team Meeting February 2016
Beckman Institute Auditorium, California Institute of Technology, Pasadena, CA

Thursday, February 18

Welcome

8:15 AM	Sign-in	All	30
8:45 AM	Welcome	David Diner	15

Clouds, Ice, and Radiation

Moderator: TBD

9:00 AM	Quantifying the bias in MODIS-retrieved cloud drop effective radius through MISR and MODIS fusion	Larry Di Girolamo	20
9:20 AM	Multi-year trends in MISR observed cloud fraction and optical depth over the extratropical oceans	Roger Marchand	20
9:40 AM	Assessing MISR cloud fractions using ground-based fisheye lens TIR imagery at Chilbolton over 6 years	Jan-Peter Muller	20
10:00 AM	Inter-calibration of CERES, MISR and MODIS and its scientific impact	Yizhe Zhan	20
10:20 AM	Discussion	All	10
10:30 AM	Break	All	20
10:50 AM	Aerosol-cloud-climate interactions from cloud-resolving and general circulation models	Yuan Wang	20
11:10 AM	Reducing errors in simulated MISR cloud retrievals from GCMs	Benjamin Hillman	20
11:30 AM	Mapping sea ice roughness from MISR	Anne Nolin	20
11:50 AM	Discussion	All	10
12:00 PM	Lunch	All	90

Winds

Moderator: TBD

1:30 PM	Comparisons of MISR CMV and new Himawari-8 AMV measurements	Dong Wu	20
1:50 PM	Title TBD	Kevin Mueller	20
2:10 PM	Evaluating the impact of MISR winds on short-term weather forecast with GEOS-5 operational data assimilation system	Junjie Liu	20
2:30 PM	An assessment of the impact of the assimilation of NASA TERRA MISR Atmospheric Motion Vectors on the Navy Global Environmental Model (NAVGEM)	Nancy Baker	20
2:50 PM	MISR winds along the equator during five El Niño and four La Niña events	David Halpern	20
3:10 PM	Discussion	All	10

Poster session I

3:20 PM	Poster viewing and break	All	70
---------	--------------------------	-----	----

Atmospheric Tomography

4:30 PM	Cloud shape reconstruction and tomography: Two prototype algorithms	Anthony Davis	20
4:50 PM	Multiscatter and refractive atmospheric tomography using multiangular images	Yoav Schechner	20
5:10 PM	Discussion	All	5
5:15 PM	Adjourn		

Social event

6:30 PM	Dinner at the Maxwell House historical landmark 55 S. Grand Ave., Pasadena
---------	---

Friday, February 19

Aerosols

Moderator: TBD

9:00 AM	MISR 4.4 km aerosol product	Michael Garay	20
9:20 AM	Estimating size-resolved surface particulate matter concentrations using MISR 4.4km size-fractionated aerosol optical depth with application to the study of children's respiratory health in Southern California	Meredith Franklin	20
9:40 AM	Recent improvements in air quality accelerate summertime warming in the southeast US	Michael Tosca	20
10:00 AM	Application of MISR and other aerosol products for air quality assessment in India	Sagnik Dey	20
10:20 AM	Discussion	All	10
10:30 AM	Break	All	20
10:50 AM	Regional aerosol type mapping with MISR	Ralph Kahn	20
11:10 AM	Identification and characterization of dust source regions across North Africa and the Middle East using MISR satellite observations	Olga Kalashnikova	20
11:30 AM	An intercomparison study on aerosol type information from different satellite instruments	Huikyo Lee	20
11:50 AM	Discussion	All	10
12:00 PM	Lunch	All	90

Surfaces

Moderator: TBD

1:30 PM	Status and prospects of the MISR-HR processing system	Michel Verstraete	20
1:50 PM	Joining DSCOVR EPIC and MISR data	Yuri Knyazikhin	20
2:10 PM	Title TBD	Mark Chopping	20
2:30 PM	Discussion	All	10

Poster session II

2:40 PM	Poster viewing and break	All	70
---------	--------------------------	-----	----

Polarization

3:50 PM	Spectral invariance hypothesis study of polarized reflectance with Ground-based Multiangle SpectroPolarimetric Imager (GroundMSPI)	Christine Bradley	20
4:10 PM	Applying a microfacet model to polarized light scattering measurements of the Earth's surface	Meredith Kupinski	20
4:30 PM	Coupled aerosol-ocean retrievals using AirMSPI	Feng Xu	20
4:50 PM	Overview of AirMSPI data acquired during the 2015 CalWater-2 and RADEX/OLYMPEX campaigns	Felix Seidel	20
5:10 PM	Discussion	All	10

Wrap-up

5:20 PM	Closing comments	David Diner	10
5:30 PM	Adjourn		

Posters

No.	Title	Lead author
1	Polarization ray tracing calculation of polarized bidirectional reflectance distribution function (pBRDF) of microfaceted surfaces to investigate multiple reflection effects	Christine Bradley
2	Title TBD	Mark Chopping
3	Progress in photoelastic modulator-based spectropolarimetric imaging of aerosols and clouds	David Diner
4	Observing polarized light from exoplanets: Recent developments	Pushkar Kopparla
5	15 years of unique data from MISR	Catherine Moroney
6	Title TBD	Kevin Mueller
7	Superobbing satellite-derived winds in the U.S. Navy Global Data Assimilation System	Patricia Pauley
8	Atmospheric Motion Vectors: Comparisons and innovation statistics in NAVGEM	Rebecca Stone
9	Observed changes in cloud cover from MISR and MODIS over the Southern Oceans	Roger Marchand
10	Understanding scaling from field to MISR ToC/BoA BRFs using NASA CAR and PARABOLA data	Jan-Peter Muller
11	Spectrally estimating leaf relative water content in the lab	Vern Vanderbilt
12	Estimating leaf relative water content from GroundMSPI imagery of a cotton canopy	Vern Vanderbilt
13	Is leaf volume reflectance Lambertian?	Vern Vanderbilt
14	On-board calibration of Airborne Multiangle Spectro-Polarimetric Imager (AirMSPI) polarization measurements	Gerard van Harten
15	Title TBD	Bin Yang
16	TOA albedo comparison between MISR and CERES over Polar region	Yizhe Zhan